From the INTERNATIONAL SEARCHING AUTHORITY

	To: MICHAEL W. FARN FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CALIFORNIA 94041 Fenwick & West LLP FEB 2 5 2008 Applicant's or agent's file FETTE CELVED	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing (day incoult year)	
23920 =	11430 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below	
2310	International application No. PCT/US07/03694	International filing date (day/month/year) 13 February 2007	
	Applicant RELIANT TECHNOLOGIES, INC.		
	1.		

Authorized officer:

Blaine R. Copenheaver
Telephone No. 571-272-7774

Facsimile No. 571-273-3201 Form PCT/ISA/220 (January 2004)

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450

(See notes on accompanying sheet)

From the INTERNATIONAL SEARCHING AUTHORITY

To: MICHAEL W. FARN FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CALIFORNIA 94041	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 22 FEB 2008
Applicant's or agent's file reference 11430 PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US07/03694	International filing date (day/month/year) 13 February 2007
Applicant RELIANT TECHNOLOGIES, INC.	
Authority have been established and are transmission of his properties. The time for a fine and the state of the applicant is entitled, if he so wishes, to amend the When? The time limit for filing such amendminemational search report. Where? Directly to the International Bureau of W 1211 Geneva 20, Switzerland, Facsimile For more detailed instructions, see the notes on the state of the properties of the protest against payment of (an) the protest together with the decision thereon applicant is request to forward the texts of both no decision has been made yet on the protest; Reminders Reminders 4. Reminders Shortly after the expiration of 18 months from the priclamational Bureau. If the applicant wishes to avoid or application, or of the priority claim, must reach the Internat before the completion of the technical preparations for inter The applicant may submit comments on an informal besits on International Bureau. The International Bureau. The International Bureau will be international perliminary examination reports has been or is the public but not before the expiration of 30 months to be served in the public but not before the expiration of 130 months to the protry date, to unonly in respect examination must be filed if the applicant wishes to postion date (in some Offices went hard; otherwise, before those designate and the protry into the national plane of three those designated of the other board before the osterior board estignated of the other board estimation of 30 months of the other board estignated of the other board estignated of the other board estignated of the other board estimation of 30 months of the other board estignated of the other board estimation of 30 months of 30 month	19: 19: 19: 19: 19: 19: 19: 19:

Authorized officer:

Blaine R. Copenheaver
Telephone No. 571-272-7774

Facsimite No. 571-273-3201 Form PCT/ISA/220 (January 2004)

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450

(See notes on accompanying sheet)

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

FOR FURTHER

ACTION

see Form PCT/ISA/220 as well as, where applicable, item 5 below.

International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year) 13 February 2006			
	PCT/US07/03694 13 February 2007 13 February 2006				
Applicant RELIANT TECHNOLOGIES, INC.					
according to Article 18. A copy is being This international search report consists It is also accompanied by a 1. Basis of the report a. With regard to the language, the the international app a translation of the is a translation furnish b. This international search c. With regard to any nucleo 2. Certain claims were foun 3. Unity of invention is lack 4. With regard to the title, the text is approved as sub	copy of each prior art document cited in this international search was carried out on the br lication in the language in which it was filed. ternational application into do for the purposes of international search (Ru yeopt has been established taking into accound this Authority under Rule 91 (Rule 43.6bis(tilde and/or amino acid sequence disclosed in d unsearchable (see Box No. II). ing (see Box No. III).	which is the language of les 12.3(a) and 23.1(b)). the rectification of an obvious mistake (b).			
may, within one month fro 6. With regard to the drawings, a. the figure of the drawings to be as suggested by the as selected by this A as selected by this A	ed, according to Rule 38.2(b), by this Authori m the date of mailing of this international sear e published with the abstract is Figure No. 1	est a figure.			

Form PCT/ISA/210 (first sheet) (April 2007)

Applicant's or agent's file reference

11430 PCT

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US07/03694

Box No.	II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This inter	national search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No.	III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
Conum I .	mational Searching Authority found multiple inventions in this international application, as follows: Jaims 1-18, drawn to a method of breating skin having imradishing the skin with leaser radishion. Gaims 28-37, drawn to an apparatus for leaser treatment of skin having a housting, a scenning apparatus, a lens and a tip.
ı. 🛚	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nes.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

INTERNATIONAL SEARCH REPORT

International application No.

			PCT/US07/0	3694	
IPC(8) - USPC -	A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 18/18; A61N 5/06 (2007.01) USPC - 606/9; 607/89 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIEL	DS SEARCHED				
Minimum do (PC(8) - A61 USPC - 606/	cumentation searched (classification system followed by c B 18/18; A61N 5/06 (2007.01) 9; 607/89	lassification symbols)			
	on searched other than minimum documentation to the extension				
PatBase	ta base consulted during the international search (name of	data base and, where p	racticable, search ter	ms used)	
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the releva	ant passages	Relevant to claim No.	
х	US 6,881,212 B1 (CLEMENT et al) 19 April 2005 (19.04	4.2005) entire docume	nt	1-2, 7, 11, 17-19, 23, 28	
Y				3-6, 8-10, 12-16, 20-22, 24-27	
Y	US 2005/0049582 A1 (DEBENEDICTIS et al) 03 March	2005 (03.03.2005) er	ntire document	3-6, 8-10, 13-16, 20-22, 24-27	
Y	US 2005/0015077 A1 (KUKLIN et al) 20 January 2005	(20.01.2005) paragrap	h [0023]	12	
×	US 2005/0154382 A1 (ALTSHULER et al) 14 July 2005	(14.07.2005) entire d	ocument	29, 34-35	
Y				30-33, 36-37	
Y	US 2001/0023351 A1 (EILERS et al) 20 September 20	01 (20.09.2001) entire	document	30-33, 36-37	
Y	Y US 5,908,415 A (SINOFSKY) 01 June 1999 (01.06.1999) columns 5 and 6			36-37	
Furth	er documents are listed in the continuation of Box C.				
"A" docum	categories of cited documents: ent defining the general state of the art which is not considered if particular relevance	"T" later document p date and not in o the principle or	ublished after the inter conflict with the applie theory underlying the	national filing date or priorit ation but cited to understan invention	
"E" earlier	application or patent but published on or after the international tate	"X" document of pa considered nove	rticular relevance; the	claimed invention cannot be ered to involve an inventive	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified asson (as specified as specified			claimed invention cannot b		
means	ent referring to an oral disclosure, use, exhibition or other ent published prior to the international filing date but later than	being obvious to	a person skilled in th		
the pri	ority date claimed actual completion of the international search	Date of mailing of t			
04 January			22 FEB 2		
Mail Stop Po	mailing address of the ISA/US CT, Attn: ISA/US, Commissioner for Patents	Authorized offic	er; Blaine R. Copenhe	aver /	
P.O. Box 14 Facsimile	50, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-43 PCT OSP: 571-272-7774	00	Tools	

From the		-			
	ONAL SEAR	CHINGAUTHO	ORITY		
To: MICHAEL W. FARN FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CALIFORNIA 94041		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
				Date of mailing (day/month/year)	22 FEB 2008
Applicant's	or agent's file	reference		FOR FURTHER A	ACTION
11430 PC					See paragraph 2 below
Internationa PCT/US07	l application N 7/03694	lo.	International filing date 13 February 2007	(day/month/year)	Priority date (day/month/year) 13 February 2006
IPC(8) - A	l Patent Classi A61B 18/18 506/9: 607/8	; A61N 5/06	or both national classifica (2007.01)	tion and IPC	
		CHNOLOGI	ES INC.		
١.	(LLI/01) 12				
l `	oinion contains	indications rela	ating to the following ite	ms:	,
	Box No. I	Basis of the op	inion		
	Box No. II	Priority			
	Box No. III	Non-establishr	nent of opinion with rega	ard to novelty, inventiv	e step and industrial applicability
	Box No. IV	Lack of unity	of invention		
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain docum	ents cited		
	Box No. VII	Certain defect	in the international app	lication	
	Box No. VIII	Certain observ	ations on the internation	al application	
2. FURT	HER ACTIO	N			
Interna other ti	tional Prelimi han this one to ns of this Inter	nary Examining be the IPEA a national Search	Authority ("IPEA") exc nd the chosen IPEA has ing Authority will not be	notified the Internations of a soconsidered.	be considered to be a written opinion of the pply where the applicant chooses an Authority nal Bureau under Rule 66.1 bis(b) that written
	on raphy togeth	er where anno	considered to be a writte priate, with amendments n of 22 months from the	 before the expiration 	, the applicant is invited to submit to the IPEA of 3 months from the date of mailing of Form er expires later.
For fur	ther options, s	ee Form PCT/I	SA/220.		
3. For fur	ther details, so	e notes to Form	PCT/ISA/220.		

Name and mailing address of the ISA/US Date of completion of this opinion Mail Stop PCT, Attr. ISA/US Commissioner for Patient, Virginia 22313-1450 P.O. Box 1450, Alexandria, Virginia 22313-1450 P.C. Box 1450, Alexandria, Virginia 22313-1450 Percentage of the Patient Mail Commissioner for Patient Virginia Patie

Form PCT/ISA/237 (cover sheet) (April 2007)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

DOTTE A 227 (Day No. D (April 2007)

International application No.	
PCT/US07/03694	

Box	No. l	1	Basis of this opinion
,	With	ı regar	d to the language, this opinion has been established on the basis of:
•	[X]		international application in the language in which it was filed.
	Ī	a tr	anslation of the international application into which is the language of a
		tra	nstation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.	\Box	Th	is opinion has been established taking into account the rectification of an obvious mistake authorized by or notified
			his Authority under Rule 91 (Rule 43bis.1(a))
3.			d to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been on the basis of:
	a. t	type of	material
	Į	닏	a sequence listing
	Į	Ш	table(s) related to the sequence listing
	b. f	formet	of material
	ا		on paper
	i		in electronic form
	١	_	
	c. 1	time o	f filing/furnishing
	ļ	닏	contained in the international application as filed
		님	filed together with the international application in electronic form
		Ш	furnished subsequently to this Authority for the purposes of search
4.			addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been ed or furnished, the required statements that the information in the subsequent or additional copies is identical to that the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5	Add	litions	comments:
٥.	. suu	ona	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

-- DCT/IS A /227 (Box No. IV) (April 2007)

International application No. PCT/US07/03694

	_	
Box No.	iv	Lack of unity of invention
ı. 🛛	In re	sponse to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the appicable time limit:
	\boxtimes	paid additional fees
		paid additional fees under protest and, where applicable, the protest fee
		paid additional fees under protest but the applicable protest fee was not paid
		not paid additional fees
2.		Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to additional fees.
3. This.	Autho	rity considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
	comp	olied with
\boxtimes		omplied with for the following reasons:
انت his appli concept u		contains the following inventions or groups of inventions which are not so linked as to form a single general inventive CCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.
Group I, o	daims claims	1-28, drawn to a method of treating skin having irradiating the skin with laser radiation. 29-37, drawn to an apparatus for laser treatment of skin having a housing, a scanning apparatus, a lens and a tip.
The inver 13.2, they nethod o	ntions I / lack t if treati atus fo	isted as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule he same or corresponding special technical features for the following reasons: the special technical feature of Group I, a ng skin having irradiating the skin with laser radiation, is not present in Group II; the special technical feature of Group II, riaser treatment of skin thaving a housing, a scanning apparatus, a lens and a tip, is not present in Group I.
Since not nvention	ne of th	ne special technical features of the Group I or Group II inventions is found in more than one of the inventions, unity of
4 0	vnece.	nently, this opinion has been established in respect of the following parts of the international application:
4. Co	- ·	
2	_	l parts
- 1	th	e parts relating to claims Nos.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US07/03694	

Box No. V Reasoned statement und citations and explanation			bis.1(a)(i) with regard to novelty, inventive step ng such statement	or industrial applicability;
1. Stateme	ent			
Nove	elty (N)	Claims	3-6, 8-10, 12-16, 19-37	YES
		Claims	1-2, 7, 11, 17-18	NO
Inve	ntive step (IS)	Claims	None	YES
		Claims	1-37	NO
Indu	strial applicability (IA)	Claims	1-37	YES
		Claims	None	NO

Citations and explanations:

Claims 1-2, 7, 11, 17 and 18 lack novelty under PCT Article 33(2) as being anticipated by Clement et al.

Salito is 12, 21, 11, 17 and 11 discloses a method of fresting skin, the skin characterized as having a stratum comeum summonting an epidermis, the epidermis missed page dermis, the method comprising, intradinging the skin with laster radiation in a manner such that at period of the stratum comeunity and stratum of the stratum of the

As to claim 2, Clement et al disclose a method of claim 1, wherein the skin is wrinkled skin and the treatment reduces the wrinkling of the skin (Col. 2, lines 6-27).

tine skin (vol. 2, innes 921).
As to claim 7, Clement et al disclose a method of claim 1, wherein the laser radiation has a wavelength that is strongly absorbed by water (Col. 1, lines 40-44).

As to claim 11, Clement et al disclose a method of claim 1, wherein the laser radiation is delivered as a sequence of pulses (Col. 3, lines 66-67) with each pulse forming a corresponding one of the spaced-apart voids (Col. 1, lines 40-46).

As to claim 17. Clement et al disclose a method of treating sixfi lastly, the skin characterized as having a stratum comesum surmounting an apidemis, the epidemis surmounting a demis, the method comprising delivering a plurality of pulses of laser adultion from a CQ2 laser to the skin in a manner such that a plurality of elsongated speed-apart voids are formed in the skin (Co1. 1, lines 44.64 wherein it is disclosed that skin is radiated to vaportze layers of issue between 30 to 60 micrometers utilizing a CO2 lasers, the voids extending through the stratum comeum, through the epidemis, and into the demiss(Co1. 1, lines 41.43 wherein it is disclosed that the target area is the demiss with inhierently means that the issue between the stratum comeum and the demiss is vaportized, with a volume of congulated dermal tissue surrounding the voids, and with viable issue or transing between the complementate shrinkage of the voids causing a strinkage of collager in the congulated layers of the voids and replaces congulated tasked units and the confidence of the voids and replaces congulated tasked units and the confidence of the voids and replaces congulated tasked with the voids and replaced to voids of the voids and replaced to voids followed by the healing process.)

As to claim 18, Clement et al disclose a method of claim 17, wherein the CO2 laser radiation has a wavelength of about 10.6 micrometers (Col. 1, lines 40-46).

Claims 3-6, 8-10, 13-16, 20-22 and 24-27 lack an inventive step under PCT Article 33(3) as being obvious over Clement et al in view of DeBenedictis et al.

As to claims 45. Clement et al disclose a method of claim 1 with all the limitations of the claim with the exception of wherein the skin is As to claims 45. Clement et al disclose a method and appearates the shormal pignenation wherein the abromal pignenation of our but one claims. DeSenation is all discloses a method and appearates for treating skin tissue with optical laser energy wherein it is disclosed that the laser treatment can be utilized for orciuc abromating pignenation (one prograph 0005) wherein the abnormal pignenation (or means (appropriate or the abromating pignenation) is command or due to melasma (paragraph 0005) wherein the abnormal pignenation is one moral or due to melasma (paragraph 0005) wherein the abnormal pignenation is of the claim of the disclosed that the treatment can be utilized for conditions such as dermal melasma). Therefore it would have been orlivious to one having ordinary skill in the art at the time the invention was made to utilize the laser treatment method Clement et all for the reduction of abnormal pignenation of the skin since laser treatment is well known in the art as disclosed by DeBenedicids et al to be an effective method and means of reducing skin discoloration.

As to claim 6, Clement is all disclose a method of claim 1 with all the limitations of the claim with the exception of whemin the skin is some between the same of the claim 1 with all the limitations of the claim with the exception of whemin the skin is some claim and the same of the claim 1 which is some c

Continued in Supplemental Box

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US07/03694

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Previous Supplemental Box

As to claims 8-10. Clement et al disclose a method of claim 7 with all the limitations of the claim with the exception of wherein the later relation has an absorption coefficient in water is between about 100 or m-1, and 12-30 or m-1, 100 or m-1 and 1000 or m-1, and about 500 or m-1, and 1000 or m-1, and 1000 or m-1, and about 500 or m-1, and 1000 or m-1, and 1000 or m-1, and about 500 or m-1, and 1000 or m-1, and 1000 or m-1, and about 500 or m-1, and 1000 or m-1, and 1000 or m-1, and about 500 or m-

As to claim 13, Clement et al disclose a method of claim 1 with all the limitations of the claim with the exception of wherein each of the laser rediation is delivered in a beam thereof inclined orthogonally to the skin. DeBenedctis et al disclose a method and apparatus for treating skin issue with optical laser energy wherein it is disclosed that the laser treatment can be delivered in a beam thereof inclined orthogonally to the skin (paragraph 0017 wherein it is disclosed that the treatment zone can be perpendicular to the beam.) Therefore it would have been obvious to one having ordinary skill in the art at the time the thereof make as made to modify the relation of Clement et al to deliver the laser beam perpendicular to the surface of the skin since it is well known in the art as disclosed by DeBendedctis et al to be an effective configuration for delivering light radiation to the skin for skin restricting.

streams consignation to converse grant evaluation as we shall not a local and the stream of the As to claim 14. Clement et all disclose a method of claim 2 with all the initiations of the claim with the exception of wherein each of the pulses is delivered in a beam thereof inclined non-orthogonally to the skin. DeBenedictis et all disclose a method and appraises to retain gain its sus with optical laser energy wherein it is disclosed that the sate treatment can be delivered in a beam thereof inclined non-orthogonally to the skin (paragraphs 0.058 and 0.105 wherein it is disclosed that the beam can be directed parallel to the treatment of the size of the skin size it is well known in the end as disclosed by DeBenedictics et al to be an effective configuration for delivering light radiation to the skin of skin resurfacing.

As to claims 15 and 16. Clement et al disclose a method of claim 1 with all the limitations of the claim with the exception of wherein the density of spaced-apart voids is about 200 and 5000 treatment zones per cm²2 and 1000 and 3000 treatment zones per cm²2. DeBenedictis et al disclose a method and apparatus for treating skin insteam with optical laser energy wherein it is disclosed that the laser treatment can be delivered in a beam pulses wherein the density of spaced-apart voids is about 200 and 5000 treatment zones per cm²2 treatment can be delivered in a beam pulses wherein the density of spaced-apart voids is about 200 and 5000 treatment zones per cm²2.

and 1000 and 3000 treatment zones per cm² (paragraph 0109). As to claim 20, Cement et all disclose a method of claim 18 with the limitations of the claim with the exception of wherein for one or As to claim 20, Cement et all disclose a method of claim 18 with a linear of the skin surface of the one or more the voids to the depth of the one or more the voids is in the range of between about 0.01 mm and 2 mm. DeBenedicties at disclose a method and apparatus for treating or more the voids is in the range of between about 0.01 mm and 2 mm. Deagraph 0109 wherein it is disclosed that the isser treatment can be delivered in a beam pulses wherein one or more the voids is in the range of between about 0.01 mm and 2 mm. Canagraph 0109 wherein it is the voids to the depth of the beam reaches a depth of up to 4 mm). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Cement et al to deliver a beam of light to a depth of up to 4 mm since this value would encompass a rangel garge enough to reach the dermis of a wide variety of patients for the reduction of wrinkes in skin treatment.

As to claims 21 and 22, Clement et al disclose a method of claim 10 with a time imitation of the claim with the exception of wherein the voids have a claimeter between about 100 micrometers and 600 micrometers and a clay the between about 200 micrometers and 4.0 and with the work of the claim of the disclose and 4.0 millimeters, and turber wherein the rate of the dismeter described to the depth of one or more of the voids is in the respect about 0.5 to 1. Debenedicts et al disclose and beam putses wherein cone or more the voids have a claimater between about 100 and 500 that the laser trained with opical lasers energy wherein it is disclosed that the laser trained to 1017 and 100 micrometers and the claim of 1017 and 100 micrometers and the claim of 1017 and 100 micrometers and the claim of 1017 and 100 micrometers and 1018 micrometers are claim of 1018 micrometers and such claim of 1018 micrometers are claim of 1018 micrometers and 1018 micrometers are claim of 1018 micrometers and 1018 micrometers and 1018 micrometers are claim of 1018 micrometers and 1018 micrometers are claim of 1018 micrometers and 1018 micrometers and 1018 micrometers are claim that are claim of 1018 micrometers and 1018 micrometers are claim to 1018 micrometers and 1018 micrometers are claim to 1018 micrometers and 1018 micrometers are claim and 1018 micrometers and 1018 micrometers are claim to 1018 micrometers and 1018 micrometers and 1018 micrometers are claim and 1018 micrometers are claim and 1018 micrometers and 1018 micrometers are claim and 1018 micrometers and 1018 micromet

voids to the depth of one or more of the voids is in the range of about .05 b 1, 1 plantages in the same the invention was made to modify is at least 12? Therefore it would have been obviously one having voids and another between about 100 and 500 micronneters and the method of Clement et al. to deliver a bear in the control of the co
Continued in Next Supplemental Box

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US07/03694

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Previous Supplemental Box

As to claim 24, Clement et al disclose a method of claim 23 with all the limitations of the claim with the exception of wherein the voids and coagulated tissue initially cover between about 5 percent and 50 percent of an area of skin irradiated by the laser radiation pulses. DeBenedictis et al disclose a method and apparatus for treating skin tissue with optical laser energy wherein it is disclosed that the laser treatment can be delivered to form voids and coagulated tissue that initially covers about 5 and 50 percent of an area of skin irradiated by the laser radiation pulses (paragraph 0047 wherein it is disclosed that Heat shock zone 404 is made up of substantially viable tissue that has been thermally altered (e.g., such that greater than about 50% of the cells in the zone that were viable before treatment are still viable)). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Clement et al to have the voids and coagulated tissue initially cover between about 5-50% of an area of skin irradiated by the laser radiation pulses since it has been disclosed by to be an effective configuration for optimal removal of wrinkles in the skin.

As to claim 25. Clement et al disclose a method of claim 24, wherein the radiation pulses have energy between about 5 millijoules and 40 millijoules. DeBenedictis et al disclose a method and apparatus for treating skin tissue with optical laser energy wherein it is disclosed that the laser treatment can be delivered as pulses having energy between about 5 and 40 millijoules (see tables 1 and 2 wherein the pulses delivered fall within the claimed range). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Clement et al to deliver pulses having energy between about 5 and 40 millijoules since it has been disclosed by DeBenedictis et al to be an effective pulse rate for optimal removal of wrinkles in the skin.

As to claim 26, Clement et all disclose a method of claim 17 with all the limitations of the claim with the exception of wherein the volds are randomly distributed over an area of skin irradiated by the laser radiation pulses. DeBenedictis et al disclose a method and apparatus for treating skin tissue with optical laser energy wherein it is disclosed that the laser treatment can be delivered so as to form voids randomly distributed over an area of skin irradiated by the laser radiation pulses (paragraphs 0052 and 0086). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Clement et al to form voids randomly distributed over an area of skin irradiated by the laser radiation pulses since it has been disclosed by DeBenedictis et all to be an

effective means for removing wrinkles from and resurfacing the skin. As to claim 27, Clement et al disclose a method of claim 17, wherein the delivering of a plurality of pulses of laser radiation from a CO2 laser to the skin is performed within one hour following the creation of an incision in the skin (Col. 1, lines 40-56 wherein it is disclosed that pulses from a CO2 laser are administered to the skin immediately after the first beam penetrates the skin).

Claim 12 lacks an inventive step under PCT Article 33(3) as being obvious over Clement et al in view of Kuklin et al. As to claim 12, Clement et al disclose a method of claim 11 with all the limitations of the claim with the exception of wherein the laser radiation is delivered as a sequence of pulses at a pulse repetition rate of between about 100 and 5000 Hz. Kuklin et al disclose a laser skin treatment method and apparatus that delivers pulses of radiation at a pulse frequency of 100 Hz (paragraph 0023). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Clement et al by delivering pulses of radiation at a rate of about 100 Hz since it has been disclosed by Kuklin et al to be an optimal rate for treating the skin for removal of skin cells and hair.

Claims 19, 23, and 28 lack an inventive step under PCT Article 33(3) as being obvious over Clement et al.

As to claim 19, Clement et al disclose a method of claim 18 with all the limitations of the claim with the exception of wherein the voids have a cross sectional area at the skin surface of between about 0.02 mm²2 and 0.5 m². However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have the voids have a cross sectional area at the skin surface of between about 0.02 mm^2 and 0.5 m^2 since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. Further it would have been obvious to one of ordinary skill in the art to have the voids be any cross sectional area that would most effectively reduce the wrinkles within the skin of a patient

As to claim 23, Clement et al disclose a method of claim 19, with all the limitations of the claim with the exception of wherein the thickness of coagulated tissue surrounding the void is about 20 micrometers and 80 micrometers immediately after ablation of the voids. However it would have been obvious to one having ordinary skill in the art at the time the invention was made to have the thickness of the coagulated tissue surrounding the void be about 20 to 80 micrometers, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimal or workable ranges involves only routine skill in the art.

As to claim 28, Clement et all disclose a method of claim 17 with all the limitations of the claim with the exception of wherein the delivering of a plurality of pulses of laser radiation from a CO2 laser to the skin is performed during the period 1 to 6 weeks following the creation of an incision in the skin. However it would have been obvious to one having ordinary skill in the art at the time the invention was made to deliver the plurality of pulses of laser radiation from a CO2 laser to the skin during the period 1 to 6 weeks following the creation of an incision in the skin to repeat the treatment and assure that the collagen is reduced and the wrinkles are removed.

Continued in Next Supplemental Box

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US07/03694

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Previous Supplemental Box

Claims 29, 34, and 35 lacks an inventive step under PCT Article 33(3) as being obvious over Altshuler et al.

As to claim 29, Altshuler et all disclose an apparatus for laser treatment of skin, the laser treatment including irradiating the ski with laser radiation in a manner such that a plurality of elongated spaced-apart voids are formed in the skin (the recitation within the preamble has not been given patentable weight because it has been held that a preamble is denied the effect of a limitation where the claim is drawn to structure and the portion of the claim following the preamble is a self-contained description of the structure not depending for completeness upon the introductory clause), the apparatus comprising: a housing (412); a scanning apparatus (1808) located in the housing, the scanning apparatus arranged to receive a the laser radiation and arranged to reflect the laser radiation in a plurality of different directions (paragraph 0141 wherein it is disclosed that reflector 1808 is used to reflect light onto the treatment site in a plurality of directions); a lens (416) located in the housing (see figure 4A), the lens arranged for focusing the laser radiation at a plurality of different points laterally spaced in a focal plane with spacing corresponding to the plurality of different directions of reflection (it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations); and a tip (417) removably attached to the housing for making contact with the skin (paragraph 0097; see figure 4C), the tip having optical access to the housing and optical access to the skin for allowing passage through the tip of the laser radiation focused by the lens, the optical access of the tip to the being about in the focal plane (see figure 4C). It is not disclosed that the tip is removable. However it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus to have the tip removable so that the device can be used for several different patients by simply replacing the tip so that a clean sterile tip is used.

As to claims 34 and 35, Altshuler et al disclose an apparatus of claim 29, wherein the optical access of the tip to the housing includes a window (417) transparent to the laser radiation and arranged to prevent air-flow between the tip and the housing (412) and the window is attached to the housing covering the aperture (see figures 4B and 4C).

Claims 30-33 lacks an inventive step under PCT Article 33(3) as being obvious over Altshuler et al in view of Eilers et al. As to claim 30, Altshuler et al disclose an apparatus of claim 29 with all the limitations of the claim with the exception of wherein the tip includes a port connectable to a vacuum pump for exhausting smoke resulting from the ablation from the tip. Ellers et al disclose an apparatus for treating skin conditions comprising a vacuum pump (32) for the exhaustion of smoke resulting from the ablation from the tip of the device (paragraph 0006 and 0014). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Altshuler et al to include a vacuum source as disclosed by Eilers et al for the removal of

unwanted substances from the skin which includes smoke and abraded skin. As to claim 31, Altshuler et al disclose an apparatus of claim 30 wherein the tip has a plurality of apertures (paragraph 0014 and 0085 wherein it is disclosed that the device can comprise apertures) therein for allowing a flow of air through the tip from the apertures to the port.

As to claim 32, Altshuler et al disclose an apparatus of claim 30 with all the limitations of the claim with the exception of wherein the tip has a replaceable filter therein covering the port preventing ingestion of debris via the port into the vacuum pump. Eilers et al disclose an apparatus for treating skin conditions comprising a vacuum pump (32) and corresponding vacuum filter (34). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Altshuler et al to have a filter in conjunction with a vacuum pump to prevent small particles from reaching the moving parts of the vacuum pump (paragraph 0054).

As to claim 33, Altshuler et al disclose an apparatus of claim 29 with all the limitations of the claim with the exception of wherein the tip includes a port connectable to an air pump (44) and has a plurality of apertures therein for providing a flow of air through the tip from the port to, the apertures for allowing ejection of smoke, resulting from the ablation, from the tip. Ellers et al disclose an apparatus for freating skin conditions comprising a tip (86) that includes a port (port inlet where line 42 connects to applicator) connectable to an air pump and has a aperture (118) therein for providing a flow of air through the tip from the port to, the apertures for allowing ejection of smoke, resulting from the ablation, from the tip. It is not disclosed that there a plurality of apertures. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize a plurality of orifices or apertures for the quicker release of smoke and other debris from the vacuum system.

Claims 36 and 37 lack an inventive step under PCT Article 33(3) as being obvious over Altshuler et al in view of Eilers et al in further view

of Sinofsky. As to claims 36 and 37, Altshuler et al disclose an apparatus of claim 34 with all the limitations of the claim with the exception of wherein the window, on a side thereof facing into the tip has a plurality of layers of material thereon transparent to the laser radiation, the layers being sequentially removable one from the other and wherein the layers are plastic layers. Sinofsky discloses a phototherapy apparatus that utilizes a laminated layer in the tip of the device (Col. 5, line 55 to Col. 6, line 9) and wherein the laminate is a polymer material which encompasses plastic. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize a laminate layer on the tip of the apparatus so that each outer layer can be peeled after usage to keep the tip clean and sterile for the next patient.

Claims 1-37 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.